

Notice of Allowability

Application No.

10/687,742

Examiner

Prabodh M. Dharja

Applicant(s)

KOYAMA, JUN

Art Unit

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11-05-2007.
2. ☒ The allowed claim(s) is/are 1-3 and 5-35.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
- ☒ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

1. **Status:** Please all the replies and correspondence should be addressed to Examiner's new art unit 2629. Receipt is acknowledged of papers submitted on 11-02-2007 under amendments and new claim, which have been placed of record in the file. Claims 1-3 and 5-35 are pending in this action. Claim 4 is cancelled.

Response to Amendment

2. The amendment filed 11-02-2007 does not introduce any new matter into the disclosure. The added material is supported by the original disclosure. Applicant has amended specifically independent claims 1-3, 7 and 9 by adding allowable limitation to expedite allowance of the instant application. Applicant also has amended dependent claims 31-34 and added new dependent claim 35.

3. Applicant has amended claims 1-3, 7, and 9 by adding allowable limitations to expedite allowance of the instant application. Applicant arguments filed on 11-02-2007, under remark regarding allowable limitations "a pixel portion comprising a first thin film transistor over and a switching regulator comprising: a switching regulator control circuit comprising a second thin film transistor; a switching element; an inductor; a diode; and a smoothing capacitor electrically connected to the switching element, wherein said switching regulator control circuit comprises: a voltage feed back circuit electrically connected to the smoothing capacitor and a duty control circuit which controls a switching duty of said switching element, wherein the first thin film transistor and the second thin film transistor are formed over a first substrate, and wherein the switching element is packed over a second substrate" are persuasive; as after further extensive search and consideration, the amended independent claims 1-3, 7 and 9 do overcome the prior art

rejection mailed on 08-28-2007, therefore the prior art rejection is withdrawn; which puts application number 10,687,742 in condition for allowance.

Allowable Subject Matter

4. Claims 1-3 and 5-35 are allowed.

5. The following is an examiner's statement of reasons for allowance:

Applicant has amended claims 1-3, 7, and 9 by adding allowable limitations to expedite allowance of the instant application. Applicant's arguments filed on 11-16-2007 are convincing. As argued by applicant in remarks under claim rejection pages 10, last paragraph, page 11, paragraph 1; prior art of Sakurai et al. (Pub. No.: US 2002/0175662 A1); Nakajima (US 20030011586 A1); Yanagi et al. (US 2002/0036636 A1); Sato et al. (US 5,583,424); Ishiyama (US 20050052447 A1); Tomio et al. (Pub. No.: US 2002/0044145 A1); Ayres (Pub. No.: US 2001/0007432 A1); Yu (Pub. No.: US 2003/0201967 A1) and Muthu et al. (Pub. No.: US 2002/0145041) with all of the other prior art cited on 892's 1449's, searched in NPL and searched in PGPUb, fails to recite or disclose all the other limitations of independent claims in combination with uniquely distinct features represented by underlined bold claim limitations recited below;

a pixel portion comprising a first thin film transistor over and a switching regulator comprising: a switching regulator control circuit comprising a second thin film transistor; a switching element; an inductor; a diode; and a smoothing capacitor electrically connected to the switching element, wherein said switching regulator control circuit comprises: a

voltage feed back circuit electrically connected to the smoothing capacitor and a duty control circuit which controls a switching duty of said switching element, wherein the first thin film transistor and the second thin film transistor are formed over a first substrate, and wherein the switching element is packed over a second substrate.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prabodh M Dharia whose telephone number is 571-272-7668.

The examiner can normally be reached on M-F 8AM to 5PM.

7. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

Application/Control Number:
10/687,742
Art Unit: 2629

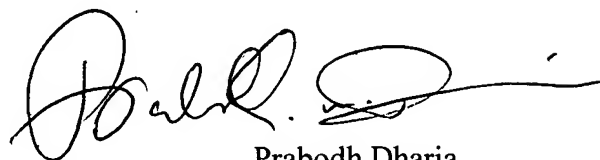
Page 5

system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

A handwritten signature in black ink, appearing to read 'Prabodh Dharia', with a long horizontal flourish extending to the right.

Prabodh Dharia

Full Signatory Authority Program

AU2629

12-19-2007